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1 Special session on mobile computing #3: Agent construction in Mobile Surveyor
· Xin Zheng
April 2004 **Proceedings of the 42nd annual Southeast regional conference**

Full text available: 📄 pdf(335.95 KB)   Additional Information: full citation, abstract, references

This paper presents Mobile Surveyor, a model-based mobile monitoring system that attempts to maximize the resource utilization by customizing the monitoring code with more specific user requirements. We seek to represent monitoring specifications with a set of Quality of Service attributes, transform them into monitoring strategies, evaluate and direct the monitoring performance based on those specifications. We discuss the possibility and difficulty in finding an optimal monitoring configuratio ...

Keywords: agent construction, mobile monitoring, quality of service, resource usage improvement

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1 Grammatical relational database model (abstract only)
B. K. Seyed-Abbassi, John C. Thompson
February 1987 **Proceedings of the 15th annual conference on Computer Science**

Full text available: 📄 pdf(125.58 KB)   Additional Information: full citation, abstract, references, index terms

This work presents a method of verifying normal form constraints on a relational database. The problem under study is related to the study of database semantics by Bernstein and Beeri [1, 2] in which these authors studied normalization of relational schemas and later, algorithmic design of such schemas. Our approach is to formulate the normal forms as a set of Van Wijngaarden grammars (W-grammars). W-grammars (Cleaveland [3]) were developed to be used as a tool in the formal spec ...

2 Global optimization of histograms
H. V. Jagadish, Hui Jin, Beng Chin Ooi, Kian-Lee Tan
May 2001 **ACM SIGMOD Record , Proceedings of the 2001 ACM SIGMOD international conference on Management of data**, Volume 30 Issue 2

Full text available: 📄 pdf(310.14 KB)   Additional Information: full citation, abstract, references, citings, index terms

Histograms are frequently used to represent the distribution of data values in an attribute of a relation. Most previous work has focused on identifying the optimal histogram (given a limited number of buckets) for a single attribute *independent of other attributes/histograms*. In this paper, we propose the idea of *global optimization of histograms*, i.e., single-attribute histograms for a set of attributes are optimized collectively so as to minimize the overall error in using th ...

3 Association of graphic images and dynamic attributes
S. Bergman, A. Kaufman
July 1977 **ACM SIGGRAPH Computer Graphics , Proceedings of the 4th annual conference on Computer graphics and interactive techniques**, Volume 11 Issue 2

Full text available: 📄 pdf(163.64 KB)   Additional Information: full citation, abstract, references

Various approaches to explicit and implicit control of time and motion in procedural real-time graphic *packages* and languages are discussed and illustrated. The particular approach of independently defining static objects and dynamic attribute is introduced and developed. The procedures which alter and manipulate basic objects at interactive run time, teamed "dynamic attributes," may be defined independently of objects as a function of time, input, and other variables. Attributes, once de ...

Keywords: clock variable, computer graphics, concurrent programming, dynamic image, graphic language, hard real-time, slippage

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4 Declarative workflows that support easy modification and dynamic browsing

Richard Hull, Francois Llirbat, Eric Siman, Jianwen Su, Guozhu Dong, Bharat Kumar, Gang Zhou

March 1999 **ACM SIGSOFT Software Engineering Notes , Proceedings of the international joint conference on Work activities coordination and collaboration**, Volume 24 Issue 2

Full text available: pdf(1.56 MB)   Additional Information: full citation, abstract, references, citings, index terms

A new programming paradigm named "Vortex" is introduced for specifying a wide range of decision-making activities including, in particular, workflows. In Vortex workflows are specified declaratively. A particular emphasis is on "object-focused" workflows, i.e., workflows focused on how individual input objects should be processed within an organization. Such workflows arise commonly in practice, including insurance claims processing, and many electronic commerce applications, and in the area of ...

Keywords: browsing, choice-based execution, decision-making, declarative semantics, workflow management

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5 Physical storage structures: A dynamic clustering technique for physical database design

J. M. Chang, K. S. Fu

May 1980 **Proceedings of the 1980 ACM SIGMOD international conference on Management of data**

Full text available: pdf(1.05 MB)   Additional Information: full citation, abstract, references, citings

In this study, a technique of performing multiple attribute clustering in dynamic databases has been investigated. We have transformed the problem of performing multiple attribute clustering into a problem of dynamically partitioning the attribute space. The optimal number of partitioning of the attribute space in a dynamic database environment has been analyzed, the partitioning direction is controlled by a discriminator sequence. The design of the discriminator sequence to obtain the optimal p ....

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6 Incremental dynamic semantics for language-based programming environments

G. E. Kaiser

April 1989 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 11 Issue 2

Full text available: pdf(1.99 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Attribute grammars are a formal notation for expressing the static semantics of programming languages—those properties that can be derived from inspection of the program text. Attribute grammars have become popular as a mechanism for generating language-based programming environments that incrementally perform symbol resolution, type checking, code generation, and derivation of other static semantic properties as the program is modified. However, attribute grammars are not suitable fo ...

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7 Strongly non-circular attribute grammars and their recursive evaluation

Martin Jourdan

June 1984 **ACM SIGPLAN Notices , Proceedings of the 1984 SIGPLAN symposium on Compiler construction**, Volume 19 Issue 6

Full text available: pdf(818.99 KB)   Additional Information: full citation, abstract, references, citings

This paper is devoted to the construction of recursive evaluators for strongly non-circular attribute grammars. This class of attribute grammars is very large and includes every practical example ; testing strong non-circularity can be done in polynomial time. To each synthesized attribute, a function is associated, which takes as parameters a derivation tree and the values of some inherited attributes, and returns the value of that attribute at the root of the tree. These functions are mutually ...

Keywords: Attribute grammars, Lisp, circularity tests, evaluation by need, recursive evaluation, storage management

8 Real-time systems: Specifying reactive systems with attributed finite state machines
Shiyuan Ding, Takuya Katayama
December 1993 **Proceedings of the 7th international workshop on Software specification and design**
Full text available: pdf(707.20 KB)   Additional Information: full citation, abstract, references

In this paper an attributed finite state machine (AFSM) model for the behavior specification of reactive systems is introduced. The basic idea is to attach attributes to the states of state machines in order to express values of system data and to define attribute computation in a functional way. An specification in AFSM consists of a collection of state transition rules. Each of these rules specifies three aspects of a reactive system: (1) the dynamic behavior, (2) the data computation and (3) ...

9 Visual debugging of visualization software: a case study for particle systems
Patricia Crossno, Edward Angel
October 1999 **Proceedings of the conference on Visualization '99: celebrating ten years**

Full text available: pdf(748.45 KB)   Additional Information: full citation, abstract, references, citings, index terms

Visualization systems are complex dynamic software systems. Debugging such systems is difficult using conventional debuggers because the programmer must try to imagine the three-dimensional geometry based on a list of positions and attributes. In addition, the programmer must be able to mentally animate changes in those positions and attributes to grasp dynamic behaviors within the algorithm. In this paper we shall show that representing geometry, attributes, and relationships graphically p ...

Keywords: algorithm animation, particle systems, program animation, program visualization, visual debugging

10 Indexing for data models with constraints and classes (extended abstract)
Paris C. Kanellakis, Sridhar Ramaswamy, Darren E. Vengroff, Jeffrey S. Vitter
August 1993 **Proceedings of the twelfth ACM SIGACT-SIGMOD-SIGART symposium on Principles of database systems**
Full text available: pdf(1.08 MB)   Additional Information: full citation, abstract, references, citings, index terms

We examine I/O-efficient data structures that provide indexing support for new data models. The database languages of these models include concepts from constraint programming (e.g., relational tuples are generalized to conjunctions of constraints) and from object-oriented programming (e.g., objects are organized in class hierarchies). Let n be the size of the database, c the number of classes, B the secondary storage page size, and

11
Machine translation and tools: Zero pronoun resolution in a Japanese to English machine translation system by using verbal semantic attributes

Hiromi Nakaiwa, Satoru Ikehara
March 1992 **Proceedings of the third conference on Applied natural language processing**

Full text available: pdf(821.75 KB)   Additional Information: full citation, abstract, references, citings
Publisher Site

A method of anaphoral resolution of zero pronouns in Japanese language texts using the verbal semantic attributes is suggested. This method focuses attention on the semantic attributes of verbs and examines the context from the relationship between the semantic attributes of verbs governing zero pronouns and the semantic attributes of verbs governing their referents. The semantic attributes of verbs are created using 2 different viewpoints: dynamic characteristics of verbs and the relationship o ...

12 Performance verification using partial evaluation and interval analysis
J. Walrath, R. Vemuri, W. Bradley
March 1997 **Proceedings of the 1997 European conference on Design and Test**

Full text available: pdf(122.24 KB)   Additional Information: full citation, abstract
Publisher Site

Summary form only given. A performance model for a typical design represented in a high-level description language can be generated by augmenting the design components with attributes and evaluation rules. An attribute represents some performance aspect of a design that can be either assigned a base initial value or calculated using an evaluation rule. Heat dissipation, dynamic power consumption, and maximum throughput rate are just a few examples of various performance aspects that can be repre ...

Keywords: PDL, attributes, equational performance model, evaluation rules, formal verification, high-level description language, interval analysis, interval mathematics, partial evaluation, performance model, performance verification, procedural performance model, relational constraints

13 Session 7: Object projection views in the dynamic relational model
Victor Vianu
April 1984 **Proceedings of the 3rd ACM SIGACT-SIGMOD symposium on Principles of database systems**

Full text available: pdf(674.61 KB)   Additional Information: full citation, abstract, references, citings

User views in a relational database obtained through a single projection ("projection views") are considered in a new framework. Specifically, such views where each tuple in the view represents an object ("object projection views") are studied using the dynamic relational model of [V1,V2], which captures the evolution of the database through consecutive updates. Attribute sets which yield object projection views are characterized using the static and dynamic functional dependencies satisfied by ...

14 Modeling II: Cellular-functional modeling of heterogeneous objects
Valery Adzhiev, Elena Kartasheva, Tosiyasu Kunii, Alexander Pasko, Benjamin Schmitt
June 2002 **Proceedings of the seventh ACM symposium on Solid modeling and applications**

Full text available: pdf(387.61 KB)   Additional Information: full citation, abstract, references, citings, index terms

The paper presents an approach to modeling heterogeneous objects as multidimensional point sets with multiple attributes (hypervolumes). A theoretical framework is based on a hybrid model of hypervolumes combining a cellular representation and a constructive representation using real-valued functions. This model allows for independent but unifying representation of geometry and attributes, and makes it possible to represent dimensionally

non-homogeneous entities and their cellular decompositions ...

Keywords: attributes, cellular representation, function representation, heterogeneous models, multidimensional point sets, volume modeling

15 A dynamic framework for object projection views

Victor Vianu

March 1988 **ACM Transactions on Database Systems (TODS),** Volume 13 Issue 1

Full text available: ⬛ pdf(1.63 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

User views in a relational database obtained through a single projection ("projection views") are considered in a new framework. Specifically, such views, where each tuple in the view represents an object ("object-projection views"), are studied using the dynamic relational model, which captures the evolution of the database through consecutive updates. Attribute sets that yield object-projection views are characterized using the static and dynamic functional dependencies satisfied by the d ...

16 A Deterministic Attribute Grammar Evaluator Based on Dynamic Scheduling

Ken Kennedy, Jayashree Ramanathan

January 1979 **ACM Transactions on Programming Languages and Systems (TOPLAS),** Volume 1 Issue 1

Full text available: ⬛ pdf(931.57 KB)   Additional Information: full citation, abstract, references, citings, index terms

The problem of semantic evaluation in a compiler-generating system can be addressed by specifying language semantics in an attribute grammar [19], a context-free grammar augmented with "attributes" for the nonterminals and "semantic functions" to compute the attributes. A deterministic method for evaluating all attributes in a "semantic" parse tree is derived and shown to have time and space complexities which are essentially linear in th ...

17 Specifying concurrent objects

B. Krämer

September 1988 **ACM SIGPLAN Notices , Proceedings of the 1988 ACM SIGPLAN workshop on Object-based concurrent programming,** Volume 24 Issue 4

Full text available: ⬛ pdf(193.99 KB)   Additional Information: full citation, abstract, index terms

The object-oriented style of programming (OOP) is gaining increasing importance as a practical technique for organizing large designs and programs. Another striking aspect of OOP is its potential for concurrent and distributed applications which is based on the fact that objects may coexist in time and concurrently may exchange information by message passing. Up to now, however, there is only little progress in the development of formal computation models that exploit the full power of conc ...

18 A panel on combined modeling

A. Alan B. Pritsker

December 1985 **Proceedings of the 17th conference on Winter simulation**

Full text available: ⬛ pdf(199.38 KB)   Additional Information: full citation, abstract, references

A simulation language provides an organizational structure to build models that simulate the dynamic performance of systems on a digital computer. The organizational structure allows the variables that define system performance to be described by equations and logical conditions. System descriptions written in terms of mathematical equations are referred to as continuous models. System descriptions written in terms of entity flow or the logical conditions that cause state changes are referr ...

19 Coping with changes in an object management system based on attribute grammars
Lichao Tan, Yoichi Shinoda, Takuya Katayama
October 1990 **ACM SIGSOFT Software Engineering Notes , Proceedings of the fourth ACM SIGSOFT symposium on Software development environments**, Volume 15 Issue 6

Full text available: pdf(1.03 MB)   Additional Information: full citation, abstract, references, index terms

In this paper, we discuss methods of dealing with change in an object management system OS/O, which is a prototype of an attribute grammar based object management model, called Object-Oriented Attribute Grammars(OOAG)[SK 9Oa]. OOAG is a hybrid model that combines features of functional and object-oriented paradigms. Various aspects of software object databases can be described using its capabilities. Software objects in OOAG are managed as autonomous, hierarchical trees containing attribute ...

20 Short talks-Specialized section: information visualization & navigation: Dynamic query sliders vs. brushing histograms
Qing Li, Xiaofeng Bao, Chen Song, Jinfei Zhang, Chris North
April 2003 **CHI '03 extended abstracts on Human factors in computing systems**

Full text available: pdf(348.87 KB)   Additional Information: full citation, abstract, references

Dynamic queries facilitate exploration of information through real-time visual display of both query formulation and results. Dynamic query sliders are linked to the main visualization to filter data. A common alternative to dynamic queries is to link several simple visualizations, such as histograms, to the main visualization with a brushing interaction. Selecting data in the histograms highlights that data in the main visualization. We compare these two approaches in an empirical experiment on ...

Keywords: e-learning and education, interaction design, usability testing and evaluation (primary keyword), visual design, visualization

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1 Session 6: Customizable description and dynamic discovery for web services
Wooyoung Kim, Alan H. Karp
May 2004 **Proceedings of the 5th ACM conference on Electronic commerce**

Full text available: 📄 pdf(188.80 KB)   Additional Information: full citation, abstract, references, index terms

We present a framework for developing ontologies suitable for a dynamic environment, such as that for web services, and describe itsuse in a commercial system for resource discovery. This framework recognizes the importance of standards but allows for evolution in away that doesn't disrupt those adhering to the standards. The framework is based on the notion of discoverable resources which offer extensibility and security. The specific ontology we use in thesystem includes some salient features, ...

Keywords: ontologies, service description and discovery, web services

2 The UCON$_{ABC}$ usage control model
Jaehong Park, Ravi Sandhu
February 2004 **ACM Transactions on Information and System Security (TISSEC)**, Volume 7 Issue 1

Full text available: 📄 pdf(518.61 KB)   Additional Information: full citation, abstract, references, citings, index terms

In this paper, we introduce the family of UCON$_{ABC}$ models for usage control (UCON), which integrate *Authorizations (A), oBligations (B), and Conditions (C)*. We call these core models because they address the essence of UCON, leaving administration, delegation, and other important but second-order issues for later work. The term usage control is a generalization of access control to cover authorizations, obligations, conditions, continuity (ongoing controls), and mutability. Trad ...

Keywords: access control, digital rights management, privacy, trust, usage control

3 Scaling up the semantic web: Super-peer-based routing and clustering strategies for RDF-based peer-to-peer networks
Wolfgang Nejdl, Martin Wolpers, Wolf Siberski, Christoph Schmitz, Mario Schlosser, Ingo Brunkhorst, Alexander Löser
May 2003 **Proceedings of the twelfth international conference on World Wide Web**

Full text available: 📄 pdf(310.31 KB)   Additional Information: full citation, abstract, references, citings, index terms

RDF-based P2P networks have a number of advantages compared with simpler P2P networks such as Napster, Gnutella or with approaches based on distributed indices such as CAN and CHORD. RDF-based P2P networks allow complex and extendable descriptions of resources instead of fixed and limited ones, and they provide complex query facilities against these metadata instead of simple keyword-based searches.In previous papers, we have described the Edutella infrastructure and different kinds of Edutella ...

Keywords: distributed RDF repositories, peer-to-peer, schema-based routing, semantic web

4 Astrolabe: A robust and scalable technology for distributed system monitoring, management, and data mining
Robbert Van Renesse, Kenneth P. Birman, Werner Vogels
May 2003 **ACM Transactions on Computer Systems (TOCS)**, Volume 21 Issue 2

Full text available: pdf(341.62 KB)   Additional Information: full citation, abstract, references, index terms

Scalable management and self-organizational capabilities are emerging as central requirements for a generation of large-scale, highly dynamic, distributed applications. We have developed an entirely new distributed information management system called Astrolabe. Astrolabe collects large-scale system state, permitting rapid updates and providing on-the-fly attribute aggregation. This latter capability permits an application to locate a resource, and also offers a scalable way to track sys ...

Keywords: Aggregation, epidemic protocols, failure detection, gossip, membership, publish-subscribe, scalability

5 The pebble crurching model for load balancing in concurrent hypercube ensembles
J. Barhen, S. Gulati, S. S. Iyengar
January 1988 **Proceedings of the third conference on Hypercube concurrent computers and applications: Architecture, software, computer systems, and general issues - Volume 1**

Full text available: pdf(1.36 MB)   Additional Information: full citation, abstract, references, citings, index terms

The successful development of fifth generation systems require enormous computational capability and flexibility necessitating the ability to achieve operational responses in hard real-time through optimal resource utilization. This entails dynamically balancing the computational load among all the processing nodes in the system. We propose a graph-theoretic, receiver-initiated, distributed protocol for dynamic load balancing protocol in large-scale hypercube ensembles. Using attributed hyp ...

6 Linking documents: XLinkProxy: external linkbases with XLink
Paolo Ciancarini, Federico Folli, Davide Rossi, Fabio Vitali
November 2002 **Proceedings of the 2002 ACM symposium on Document engineering**

Full text available: pdf(282.33 KB)   Additional Information: full citation, abstract, references, citings, index terms

In the linking model of the World Wide Web each link is stored in the referring document within an attribute of the A tag. All the hyperlink defined this way can reference a single resource or a single fragment. With the evolution of Web technologies more powerful linking languages (XLink and XPointer) have been proposed.Here we introduce XLinkProxy, a Web application that allows sophisticated hyperlink (defined using XLink and XPointer) to be defined outside referring documents, giving users th ...

Keywords: XLink, XPointer, external linkbases

7 The design and implementation of an intentional naming system

William Adjie-Winoto, Elliot Schwartz, Hari Balakrishnan, Jeremy Lilley

December 1999 **ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth ACM symposium on Operating systems principles**, Volume 33 Issue 5

Full text available: pdf(1.77 MB)   Additional Information: full citation, abstract, references, citings, index terms

This paper presents the design and implementation of the Intentional Naming System (INS), a resource discovery and service location system for dynamic and mobile networks of devices and computers. Such environments require a naming system that is (i) expressive, to describe and make requests based on specific properties of services, (ii) responsive, to track changes due to mobility and performance, (iii) robust, to handle failures, and (iv) easily configurable. INS uses a simple language based o ...

8 Dynamic adaptation of real-time software

Thomas E. Bihari, Karsten Schwan

May 1991 **ACM Transactions on Computer Systems (TOCS)**, Volume 9 Issue 2

Full text available: pdf(2.04 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

In large, dynamic, real-time computer systems, it is frequently most cost effective to employ different software performance and reliability techniques at different levels of granularity, at different times, or within different subsystems. These techniques may include regulation of redundancy and resource allocation, multiversion and multipath execution, adjustments of program attributes such as time-out periods and others. The management of software in such systems is a difficu ...

Keywords: adaptability, dynamic software architectures, real-time systems, software engineering

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